

BILL OF REINFORCING STEEL FOR SUPERSTRUCTURE - 120' BRIDGE

LOCATION	SKEW	SHAPE	BAR NO.	0°		15°		30°		45°		
				LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.	LENGTH	WEIGHT	NO.
SLAB LONGITUDINAL BOTTOM			9a1	39	27'-0	3581	39	27'-0	3581	39	27'-0	3581
SLAB LONGITUDINAL BOTTOM			9a2	39	41'-3	5470	39	41'-3	5470	39	41'-3	5470
SLAB LONGITUDINAL BOTTOM			9a3	39	38'-9	5139	39	38'-9	5139	39	38'-9	5139
SLAB LONGITUDINAL BOTTOM			8a4	40	29'-3	3124	40	29'-3	3124	40	29'-3	3124
SLAB LONGITUDINAL BOTTOM			9a5	20	36'-6	2482	20	36'-6	2482	20	36'-6	2482
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a6	8	36'-1	982	8	36'-1	982	8	36'-1	982
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a7	8	12'-0	327	8	12'-0	327	8	12'-0	327
SLAB LONGITUDINAL BOTTOM, AT RAIL			9a8	4	45'-8	622	4	45'-8	622	4	45'-8	622
SLAB LONGITUDINAL BOTTOM, AT RAIL			8a9	8	25'-6	545	8	25'-6	545	8	25'-6	545
SLAB LONGITUDINAL BOTTOM, AT RAIL			8a10	4	25'-6	273	4	25'-6	273	4	25'-6	273
SLAB LONGITUDINAL TOP			7b1	39	9'-0	718	39	9'-0	718	39	9'-0	718
SLAB LONGITUDINAL TOP			10b2	39	29'-6	4951	39	29'-6	4951	39	29'-6	4951
SLAB LONGITUDINAL TOP			10b3	39	26'-9	4490	39	26'-9	4490	39	26'-9	4490
SLAB LONGITUDINAL TOP			7b4	39	23'-3	1854	39	23'-3	1854	39	23'-3	1854
SLAB LONGITUDINAL TOP			11b5	40	30'-3	6429	40	30'-3	6429	40	30'-3	6429
SLAB LONGITUDINAL TOP			6b6	20	28'-4	852	20	28'-4	852	20	28'-4	852
SLAB LONGITUDINAL TOP, AT RAIL			6b8	8	29'-0	349	8	29'-0	349	8	29'-0	349
SLAB LONGITUDINAL TOP, AT RAIL			10b9	8	29'-0	999	8	29'-0	999	8	29'-0	999
SLAB LONGITUDINAL TOP, AT RAIL			6b10	4	23'-0	139	4	23'-0	139	4	23'-0	139
SLAB LONGITUDINAL TOP, AT RAIL			6b11	8	31'-6	379	8	31'-6	379	8	31'-6	379
SLAB LONGITUDINAL TOP, AT RAIL			11b12	8	23'-0	978	8	23'-0	978	8	23'-0	978
SLAB TRANSVERSE, BOTTOM			6c1	117	32'-10	5770	117	34'-0	5975	104	32'-10	5129
SLAB TRANSVERSE ENDS, BOTTOM			6c2	-	-	-	-	-	30	VARIES	797	56
SLAB TRANSVERSE, TOP			5d1	117	32'-10	4007	117	34'-0	4150	104	32'-10	3562
SLAB TRANSVERSE ENDS, TOP			5d2	-	-	-	-	-	30	VARIES	553	56
SLAB, TRANSVERSE AT ABUTMENT			8e1	18	32'-10	1578	-	-	-	-	-	-
SLAB, TRANSVERSE AT ABUTMENT			8e2	-	-	-	18	33'-11	1631	18	37'-6	1803
SLAB, HAIRPINS, AT ABUTMENT			6e3	72	5'-0	541	72	5'-1	550	72	5'-5	586
SLAB, HAIRPINS, AT ABUTMENT			6e4	72	5'-11	640	72	5'-11	640	72	5'-11	640
SLAB, DIAGONALS, AT ABUTMENT			5h1	40	7'-10	327	40	7'-10	327	40	7'-10	491
PIER CAP HOOPS			8h2	4	14'-5	154	4	14'-5	154	4	14'-5	154
PIER CAP, BOTTOM LONGITUDINAL			8h3	8	29'-10	638	8	30'-11	661	8	34'-5	736
PIER CAP, TOP LONGITUDINAL			8h4	4	32'-10	351	4	34'-0	364	4	37'-11	405
TOP OF SLAB, TRANSVERSE, AT RAIL			5j1	232	8'-6	2057	232	8'-6	2057	232	8'-6	2057
WING, VERTICAL			5m1	40	4'-5	185	40	4'-5	185	40	4'-5	185
WING, HORIZONTAL BACK FACE			5n1	24	6'-8	167	24	6'-8	167	24	6'-8	167
WING, HORIZONTAL TRAFFIC FACE			5n3	24	6'-9	169	24	6'-9	169	24	6'-9	169
** PAVING BLOCK LIFTING HOOPS			5x1	10	2'-10	30	10	2'-10	30	10	2'-10	30
SUB TOTAL - LBS.						61,297		61,743		62,147		62,834
BARRIER RAIL - SEE LIST ON RAIL SHEET J30-41-06						7536		7536		7536		7536
OPEN RAIL - SEE LIST ON RAIL SHEET J30-44-06						8061		8061		8061		8061
TOTAL - LBS.		WITH MONOLITHIC PIER CAP	WITH BARRIER RAIL			68,833		69,279		69,683		70,370
		WITH OPEN RAIL				69,358		69,804		70,208		70,895
TOTAL - LBS.		WITH NON-MONOLITHIC PIER CAP	WITH BARRIER RAIL			67,363		67,773		67,897		68,327
SAME AS ABOVE EXCEPT ALL "H" BARS DELETED		WITH OPEN RAIL				67,888		68,298		68,422		68,852

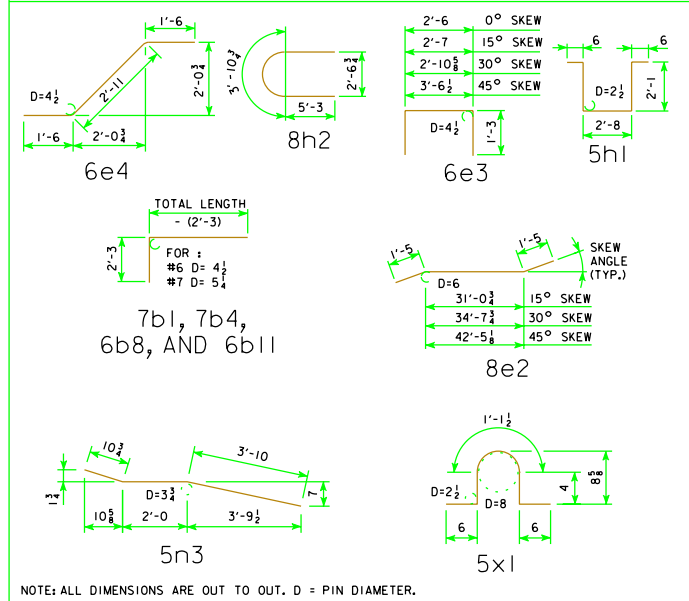
** BARS MAY BE NON-COATED AT CONTRACTOR'S OPTION.

ESTIMATED QUANTITIES FOR SUPERSTRUCTURE - 120' BRIDGE

ITEM	SKEW	WITH MONOLITHIC PIER CAP				WITH NON-MONOLITHIC PIER CAP			
		0°	15°	30°	45°	0°	15°	30°	45°
WITH STRUCTURAL CONCRETE (BRIDGE) C.Y.		271.4	272.1	274.8	280.4	266.8	267.4	269.6	274.1
BARRIER RAIL REINFORCING STEEL EPOXY COATED LBS.		68,833	69,279	69,683	70,370	67,363	67,773	67,897	68,327
CONCRETE BARRIER OR OPEN RAIL LIN. FT.		262.0	262.2	262.9	264.5	262.0	262.2	262.9	264.5
WITH STRUCTURAL CONCRETE (BRIDGE) C.Y.		271.2	271.9	274.6	280.2	266.6	267.1	269.3	273.8
OPEN RAIL REINFORCING STEEL EPOXY COATED LBS.		69,358	69,804	70,208	70,895	67,888	68,298	68,422	68,852

* INCLUDES 4 WINGS @ 0.68 C.Y. EACH AND 2 TEMPORARY PAVING BLOCKS; EXCLUDES RAIL CONCRETE.

BENT BAR DETAILS



07-09 LATEST REVISION DATE	M. C. M. M. M. APPROVED BY BRIDGE ENGINEER	<p>Iowa Department of Transportation Highway Division</p>
		<p>STANDARD DESIGN - 30' ROADWAY, 3 SPAN BRIDGES</p> <p>CONTINUOUS CONCRETE SLAB BRIDGES</p> <p>NOVEMBER, 2006</p>
		<p>SUPERSTRUCTURE DETAILS 120'-0 BRIDGE</p> <p>EPOXY COATED REINFORCING</p>

REVISED 07-09 - OPEN RAIL REINF. QTY'S. CHANGED WHICH CHANGED TOTAL REINF. QTY'S.